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# SEARCH REQUEST FORM

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Scientific and Technical Information Center

Requester's Full Name: Gellner Examiner #: 764/6 Date: 4 Dec 00  
 Art Unit: 3643 Phone Number 30 50053 Serial Number: 107900  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

A slow release seed coating with an insoluble polymer controlled release

Polymer {  
 ABS  
 ethylcellulose  
 cellulose acetate  
 polyurethane  
 starch

PVA

PVCH

BIONOLLE

and a surfactant {  
 diallylamine  
 lauric alcohol  
 alkyl alkyl phenol  
 alkyl  
 succinic anhydride  
 succinic  
 anhydride

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Type of Search		Vendors and cost where applicable
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Online Time: _____	Other <u>any</u> _____	Other (specify) _____

industry. Vermiculite...

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Set	Items	Description
S1	148	(SEED OR SEEDS) (7N) (COAT? OR COVER?) (7N) (POLYMER? OR ETHYL-CELLULOSE OR ETHYL()CELLULOS? OR POLYURETHANE OR LINOLENIC OR SUCCINIC) (7N) (SLOW? OR TIME? OR CONTROL?) (7N)RELEAS?
S2	136	RD (unique items)
?		

2/3,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:BIOSIS Previews(R)  
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13173397 BIOSIS NO.: 200100380546

**Extended release acetaminophen.**

AUTHOR: Anaebonam Aloysius O; Clemente Emmett; Mendes Robert W  
JOURNAL: Official Gazette of the United States Patent and Trademark Office  
Patents 1248 (1):pNo Pagination July 3, 2001  
MEDIUM: e-file  
ISSN: 0098-1133  
DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: An extended \*release\* acetaminophen composition comprises particles containing acetaminophen \*coated\* on sugar/\*starch\* \*seeds\*. The particles are present as a blend of both an immediate \*release\* and a \*controlled\* release form. The composition, when contained within a gelatin capsule and assayed in a USP...

2/3,K/2 (Item 1 from file: 74)  
DIALOG(R)File 74:Int.Pharm.Abs.  
(c) 2002 Amer.Soc.of Health-System Pharm. All rts. reserv.

00252760 33-03169

**SUSTAINED RELEASE FLURBIPROFEN BEADS**

Pandey, S.; Singh, U. V.; Udupa, N.  
Coll. of Pharm. Sci., K. M. C., Manipal-576 119, India  
Indian Journal of Pharmaceutical Sciences (India), V57, (3), p102-104, 1995  
CODEN: IJSIDW ISSN: 0250-474X LANGUAGE: English RECORD TYPE: Abstract

A pan \*coating\* procedure for dried edible ripened plant \*seeds\* of Paspalum scrobiculatum \*coated\* with flurbiprofen and \*ethylcellulose\*, which was developed for the design of an oral \*controlled\* \*release\* preparation of the drug, is described.

In vitro dissolution and bioavailability studies in 6 healthy...

2/3,K/3 (Item 1 from file: 112)  
DIALOG(R)File 112:UBM Industry News  
(c) 2002 United Business Media. All rts. reserv.

01019184 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Prolonged activity against WBF**

Arable Farming , p 3

May 13, 97

LANGUAGE: English RECORD TYPE: Fulltext DOC. TYPE: Journal  
WORD COUNT: 00000248

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...forming a protective zone around the developing plant." The active ingredient is encapsulated in tiny \*polymer\* \*coated\* spheres within the \*seed\* \*coating\* allowing a \*slow\* and \*controlled\* \*release\* of insecticide over a longer period of time.

"Cost is "marginally more" than fonofos.

...

2/3,K/4 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2002 INIST/CNRS. All rts. reserv.

15653647 PASCAL No.: 02-0359380  
**Effects of double encapsulation and coating on synthetic seed conversion  
in M.26 apple rootstock**  
MICHELI M; PELLEGRINO S; PICCIONI E; STANDARDI A  
Department of Arboriculture and Plant protection, University of Perugia,  
Borgo XX Giugno, 74, 06121 Perugia, Italy  
Journal: Journal of microencapsulation, 2002, 19 (3) 347-356  
Language: English

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English Descriptors: Pharmaceutical technology; Malus domestica; Bud;  
Encapsulation; Artificial \*seed\*; Rooting; Alginates; \*Control\* \*release\*  
\*polymer\*; \*Coating\*; Physical structure; Physicochemical properties;  
Viability; Regrowth; Callus; Fabrication property relation  
?

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? ds

Set	Items	Description
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S1 974 (SEED OR SEEDS) (7N) (COAT? OR COVER?) (7N) (POLYMER? OR ETHYL-  
CELLULOSE OR ETHYL()CELLULOSE OR POLYURETHANE OR STARCH OR BI-  
ONOLLE OR LINOLENIC OR SUCCINIC OR ALLYL)  
S2 4 S1 (7N) (SLOW? OR TIME? OR CONTROL?) (3N)RELEAS?  
?

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Set	Items	Description
S1	173825	ETHYLCELLULOSE OR CELLULOSE(2N)ACETATE OR ETHYL()CELLULOSE OR POLYURETHANE OR STARCH
S2	6961	BIONOLLE OR PVOH OR PVA
S3	799	SUCCINIC()ANHYDRID?
S4	10	LINOLEN?(2N)ALCOHOL?
S5	8	ALLYL(2N)PHENOL
S6	16	ALLYL(2N)PHENOL?
S7	54362	(SLOW? OR CONTROL? OR TIMED) (3N)RELEASES?
S8	4806487	COAT? OR COVER? OR ENROB?
S9	0	(S1 OR S2) (S) (S3 OR S4 OR S6) (S) (SEED OR SEEDS)
S10	573703	SEED OR SEEDS
S11	33	S7(7N)S10(7N)S8
S12	6	S11 AND (S1 OR S2 OR S3 OR S4 OR S6)
		?

12/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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02344584 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Water-soluble films: an explanation**

(World: Demand for water-soluble film as packaging material is rising 15%/yr; Chris Craft Industrial Products believes that use of water-soluble film as packaging material in Asia has bright future, especially in China and Taiwan)

Plastics & Rubber Asia, v 13, n 63, p 30+

November 1998

DOCUMENT TYPE: Journal ISSN: 0344-8843 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 401

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...currently growing at the rate of 15% per year. The latest generation of polyvinyl alcohol (\*\*PVOH\*\*) homopolymer, copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in \*\*PVOH\*\* water soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

\*\*PVOH\*\* or cellulosic water-soluble films are quickly biodegradable as they dissolve upon contact with water...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into \*\*PVOH\*\* film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

...in barrier film for sanitary napkins

\* germinating aids and fungicides in tape for spacing garden \*\*seeds\*\*

\* biocides in hospital laundry bags to disinfect linen during collection

\* \*\*slow\*\*-\*\*releasing\*\* medication in wound \*\*coverings\*\* and drug-delivery patches.

The most widely used \*\*PVOH\*\* materials in the packaging industry are cold water-soluble films. Chris\*Craft's MonoSol Division has developed an extensive range of \*\*PVOH\*\*-based films that are suitable for products in solid, liquid or gel form. ...

12/3,K/2 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06043746 Supplier Number: 53542394 (USE FORMAT 7 FOR FULLTEXT)

**US technology in focus.**

Plastics & Rubber Asia, v13, n83, p26(1)

Nov, 1998

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 2333

... not be pelletized. An example of this is our Hot Melt Adhesive and TPU (thermoplastic \*\*polyurethane\*\*) production systems. These offer customers the opportunity to pelletize a wide range of products at... currently growing at the rate of 15% per year. The latest generation of polyvinyl alcohol (\*\*PVOH\*\*) homopolymer, copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in \*\*PVOH\*\* water soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

\*\*PVOH\*\* or cellulosic water-soluble films are quickly biodegradable as they dissolve upon contact with water...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into \*\*PVOH\*\* film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

...in barrier film for sanitary napkins

\* germinating aids and fungicides in tape for spacing garden

\*\*seeds\*\*

\* biocides in hospital laundry bags to disinfect linen during collection

\* \*\*slow\*\*--\*\*releasing\*\* medication in wound \*\*coverings\*\* and drug-delivery patches.

The most widely used \*\*PVOH\*\* materials in the packaging industry are cold water-soluble films. Chris\*Craft's MonoSol Division has developed an extensive range of \*\*PVOH\*\*-based films that are suitable for products in solid, liquid or gel form. LNP Engineering...

12/3,K/3 (Item 1 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.

02986676 CAB Accession Number: 950703242

Effect of deep placement of \*\*coated\*\* urea \*\*slow\*\* \*\*release\*\* nitrogen fertilizer on chemical composition of soyabean \*\*seeds\*\*.

Ohyama, T.; Otake, N.; Chinushi, T.; Takahashi, Y.

Niigata University, Niigata 950-21, Japan.

Japanese Journal of Soil Science and Plant Nutrition vol. 65 (1): p.41-47

Publication Year: 1994

ISSN: 0029-0610 --

Language: Japanese Summary Language: english

Document Type: Journal article

Effect of deep placement of \*\*coated\*\* urea \*\*slow\*\* \*\*release\*\* nitrogen fertilizer on chemical composition of soyabean \*\*seeds\*\*. --

Seed N, P, K, Ca, Mg, Na, Fe, \*\*starch\*\*, oil, oligosaccharide and protein composition was not significantly affected by deep placement of coated urea...

...DESCRIPTORS: \*\*starch\*\*;

12/3,K/4 (Item 1 from file: 79)  
DIALOG(R)File 79:Foods Adlibra(TM)  
(c) 2002 General Mills. All rts. reserv.

163107 88080803

**Corn \*\*starch\*\***

Author(s): NA

Genetic Technology News, 8(3) (March 1988), p. p 18,31

**Corn \*\*starch\*\***

Corn \*\*starch\*\*: USDA research on corn \*\*starch\*\* gives rise to a steady stream of new products. One area of produce development is super absorbent materials. Others coming along both experimentally and commercially include \*\*slow\*\* \*\*release\*\* pesticides, biodegradable packaging materials, soil stabilizers and \*\*seed\*\* \*\*coatings\*\*.

12/3,K/5 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

09915257 SUPPLIER NUMBER: 19872746 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Choosing and using water-soluble films.**

Ink & Print, v15, n3, p6(2)

Summer, 1997

ISSN: 0263-497X

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1718 LINE COUNT: 00155

... per year, and it's easy to understand why. The latest generation of polyvinyl alcohol (\*\*PVOH\*\*) homopolymer, copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in \*\*PVOH\*\* water-soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

'Today's \*\*PVOH\*\* films represent significant advances over previously developed materials, says Andy Verrall. Technical Manager at Chris...

...jugs produced every year, disposal of chemically-contaminated containers has become a major worldwide concern. \*\*PVOH\*\* or cellulosic water-soluble films, quickly biodegradable as they dissolve upon contact with water, make disposal problems virtually disappear.

In addition, \*\*PVOH\*\* films offer a significant advantage over traditional bulk packaging methods. an especially desirable attribute in...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into \*\*PVOH\*\* film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

...in barrier film for sanitary napkins: germinating aids and fungicides in tape for spacing garden \*\*seeds\*\*; biocides in hospital laundry bags to disinfect linen during collection: and \*\*slow\*\*--\*\*releasing\*\* medication in wound \*\*coverings\*\* and drug-delivery patches.

An additional option from Greensol SA is the development of its...

...generation of films is their increased chemical and physical compatibility with the products they enclose.

'\*\*PVOH\*\* is not an inert polymer.' says Verrall. 'The chemical structure that provides for water solubility...

...relatively reactive one which can be modified to give an insoluble polymer. In addition, most \*\*PVOH\*\* polymers need to be made more flexible with potentially leachable plasticisers. The challenge for us...

...appropriate base-polymer systems and the overall film formulation.'

By far the most widely-used \*\*PVOH\*\* materials in the packaging industry are cold water-soluble films. Chris\*Craft's MonoSol Division has developed an extensive range of \*\*PVOH\*\*-based films that are suitable for products in solid, liquid or gel form. These films...

12/3,K/6 (Item 2 from file: 148)  
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05797572 SUPPLIER NUMBER: 11902096 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Converter's materials. (speciality packaging)**  
Paper, Film and Foil CONVERTER, v66, n2, p12(1)  
Feb, 1992  
ISSN: 0031-1138 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1107 LINE COUNT: 00094

TEXT:

Water-soluble polyvinyl alcohol (\*\*PVOH\*\*) films for a range of specialty-packaging applications are available from Chris Craft Industrial Products...

Mono-sol films produced from \*\*PVOH\*\* are transparent, tough and versatile. They can be made insoluble for soft-goods packaging, hot...

...pan liners and packaging of culture mediums.

On the consumer-packaging front, several formulations of \*\*PVOH\*\* are used for packaging laundry detergent, toilet-cleaner blocks, household dyes, seed tapes and gardening...

...in barrier film for sanitary napkins.

\* Germinating aids and fungicides in tape for spacing garden  
\*\*seeds\*\*.

\* Biocides in hospital laundry bags to disinfect linen during collection.

\* \*\*Slow\*\*-\*\*releasing\*\* medication in wound \*\*coverings\*\* and drug-delivery patches.

After the \*\*PVOH\*\* has dissolved and completed its packaging purpose, the material is biodegradable and considered nontoxic. The degree of \*\*PVOH\*\* degradation has been found to be more than 90% within approximately seven days under test...

...by the US Environmental Protection Agency.

It was also observed that in the presence of \*\*PVOH\*\*, the metabolism of microorganisms necessary for degradation wasn't inhibited or retarded. This means that \*\*PVOH\*\* can be broken down into minute fragments and also can contribute to effluent chemical oxygen demand in waste-treatment facilities.

Although the advantages of \*\*PVOH\*\* are significant, the firm warns many considerations must be taken into account when embarking on a project involving the film. Obviously, the packets must be protected from water until use. \*\*PVOH\*\* must be stable when in contact with the product being packaged as well as be...

...the film series will best suit the application.

In many cases, the commercial grades of \*\*PVOH\*\* films simply won't satisfy the end-use application requirements. A cooperative effort usually can...

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(FILE 'HOME' ENTERED AT 10:47:21 ON 04 DEC 2002)

FILE 'REGISTRY' ENTERED AT 10:47:45 ON 04 DEC 2002

L1           27 S E3  
              E ETHYLCELLULOSE/PCT  
              E ETHYLCELLULOSE  
              E CELLULOSE ACETATE/CN  
L2           1 S E3  
              E ETHYLCELLULOSE/CN  
L3           1 S E3  
              E POLYURETHANE/CN  
              E POLYURETHANE/PCT  
L4           61853 S E3  
              E STARCH/CN  
              E STARCH/CN  
              E BIONOLLE  
L5           26 S E3  
              E SUCCINIC ANHYDRIDE/CN  
L6           1 S E3  
              E LINOLENIC ALCOHOL  
              E LINOLENIC/CN  
              E ALLYL ALKYL PHENOL/CN  
              E SUCCINIC ANHYDRIDE/CN  
L7           1 S E3

FILE 'CAPLUS' ENTERED AT 10:54:39 ON 04 DEC 2002

L8           125 S (L1 OR L2 OR L3 OR L4 OR L5) AND (L6 OR ALLYL()ALKYL OR LINOL  
L9           45981 DS  
L10          4 S L8 AND SEED?  
L11          1167281 S COAT? OR COVER?  
L12          33130 S (SLOW? OR CONTROL?) (3A) RELEAS?  
L13          149030 S SEED OR SEEDS  
L14          1 L8 AND L12 AND L13  
L15          2 S L8 AND L12 AND L11

FILE 'AGRICOLA' ENTERED AT 11:18:42 ON 04 DEC 2002

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=> d ibib abs 1-4

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2002:736579 CAPLUS  
DOCUMENT NUMBER: 137:228099  
TITLE: Polymeric film coatings for **seed** treatment  
for controlled release of pesticides  
INVENTOR(S): Ding, Yiwei; Asrar, Jawed  
PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA  
SOURCE: U.S. Pat. Appl. Publ., 15 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US2002134012	A1	20020926	2002US-0079000	20020218
WO2002080675	A1	20021017	2002WO-US04699	20020219

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: 2001US-277503P P 20010321

AB A method of controlling the release rate of an agricultural active ingredient, such as pesticide, from a **seed** that has been treated with that active includes providing a **seed** that has been treated with the active ingredient, applying to the treated **seed** a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer coating on the surface of the treated **seed**. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The **seed** is the **seed** of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:525953 CAPLUS  
DOCUMENT NUMBER: 135:112006  
TITLE: Pharmaceutical composition for reducing plasma  
triglycerides, platelet aggregation, and oxidative  
capacity  
INVENTOR(S): Cincotta, Anthony  
PATENT ASSIGNEE(S): USA  
SOURCE: PCT Int. Appl., 18 pp.

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CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2001051088	A1	20010719	2001WO-US00385	20010105

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, TR

PRIORITY APPLN. INFO.: 2000US-175176P P 20000107

AB A compn. comprising at least one unsatd. fatty acid, such as an omega-3 fatty acid; pantethine; and an antioxidant selected from the group consisting of vitamin C, vitamin E, tocotrienol, at least one carotenoid, at least one flavonoid, coenzyme Q10, and grape seed ext. Such active ingredients may be encapsulated in an encapsulating medium to form microparticles, which may be suspended in an aq. soln. Such a compn. reduces plasma triglyceride levels, platelet hyper-aggregation, endothelium dysfunction, and tissue oxidative capacity, and thus reduces the risk of cardiovascular disease. A formulation was prepd. by adding the the following ingredients to a fruit drink: vitamin E 400 IU, vitamin C 1, bioflavenoids 1, microencapsulated fish oil 5, microencapsulated pantethine powder 1.5 g, and grape seed ext. 50 mg. Addn. of the above formulation to the diet of hyperlipidemic mice reduced the serum triglyceride level by 70% and the serum total cholesterol level by 34% to levels obsd. in normal lean mice.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:184293 CAPLUS

DOCUMENT NUMBER: 130:224129

TITLE: Open-cell polyisocyanurate foam for fixing and supporting plants

INVENTOR(S): Sano, Yoko

PATENT ASSIGNEE(S): Japan

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO---9911689	A1	19990311	1998WO-JP03952	19980903

W: AU, BR, CA, CN, KR, SG, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE

JP--11193320	A2	19990721	1997JP-0370280	19971226
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JP--11140156	A2	19990525	1998JP-0042762	19980121
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TW----430683	B	20010421	TW 1998-87114506	19980901
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AU---9889971	A1	19990322	1998AU-0089971	19980903
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AU---747748	B2	20020523		
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EP---939092	A1	19990901	1998EP-0941701	19980903
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R: BE, CH, DE, DK, FR, GB, IT, LI

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BR---9806160 A 20001031 1998BR-0006160 19980903  
 US---6271274 B1 20010807 1999US-0297511 19990503  
 PRIORITY APPLN. INFO.: 1997JP-0276347 A 19970903  
 1997JP-0370280 A 19971226  
 1998JP-0042762 A 19980121  
 1998WO-JP03952 W 19980903

AB An open-cell polyisocyanurate foam, having d. 8-70 kg/m<sup>3</sup>, open cell content .gtoreq.98 %, a hardness 0.2-1.5 kgf/cm<sup>2</sup> in a state compressed by 10 to 40 % in both the parallel direction and its rectangular direction, and having excellent water absorption retention for fixing and supporting plants is prepd. from an arom. isocyanate, a hydroxyl compd. having functional groups .gtoreq.1.0 and oxyethylene content .gtoreq.20 wt.%, an isocyanuration catalyst, a polysiloxane/polyoxyalkylene foam stabilizer, and a nonionic emulsifier with no active hydrogen. Thus, ethylene oxide/propylene oxide (80/20) ether with 1,2,3-propanetriol (3:1) 100, -polymeric MDI (Coronate 1110) 350, Polycat 46 (potassium acetate)0.6, Polycat 42 (a mixt. of N,N',N''-tris(dimethylaminopropyl)hexahydro-S-triazine and 2-ethylhexane potassium mixt. of N,N',N''-tris(dimethylaminopropyl)hexahydro-S-triazine and 2-ethylhexane potassium) 1.4, silicone defoamer (polydimethylsiloxane-co-polyethylene glycol) 3.0, polyethylene glycol dioleate (Ionet DO 600) 100, alkyl di-Ph ether sulfonic acid sodium salt (Newcol 271 S) 20 formed a polyisocyanurate foam, showing 10% and 40% compression hardness 0.50 and 0.52 kgf/cm<sup>3</sup> resp., open cell ratio 100, water absorption 0.94 vol/vol, water retention 0.64 vol/vol, and good grow seedling performance.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:606617 CAPLUS  
 DOCUMENT NUMBER: 115:206617  
 TITLE: Feed additives rich in omega-3 fatty acids  
 INVENTOR(S): Lee, Nam Myung; Yoon, Chil Surk; Kim, Heung Man  
 PATENT ASSIGNEE(S): Korea Food Research Institute, S. Korea  
 SOURCE: Brit. UK Pat. Appl., 12 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB---2240702	A1	19910814	1990GB-0011483	19900523
GB---2240702	B2	19940316		
JP--03240444	A2	19911025	1990JP-0154992	19900612
US---5106639	A	19920421	1991US-0649019	19910201
PRIORITY APPLN. INFO.:			1990KR-0001620	19900210

AB Feed additives that improve the .omega.-3 fatty acid content of meat are described. The additives use oils rich in polyunsatd. fatty acids that are mixed with a suitable carrier and dried to a powder that is then coated with an enteric coating material. Feeding expts. on pigs in which a no. of such preps. were compared for their effects on .omega.-3 fatty acid content in liver microsomes, loin, and s.c. are described. When tallow was used as the fat the .omega.-3 fatty acid content of liver microsomes was 6.4% of total fatty acids. Addn. of cottonseed oil lowered this to 4%. The use of powd. perilla oil prepd. by the method of the invention raised this to 20.5%. Coating the powder with derivatized

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cellulose raised the value to 29.7%.

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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2002:736579 CAPLUS  
DOCUMENT NUMBER: 137:228099  
TITLE: Polymeric film coatings for **seed** treatment  
for **controlled release** of  
pesticides  
INVENTOR(S): Ding, Yiwei; Asrar, Jawed  
PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA  
SOURCE: U.S. Pat. Appl. Publ., 15 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US2002134012	A1	20020926	2002US-0079000	20020218
WO2002080675	A1	20021017	2002WO-US04699	20020219
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: 2001US-277503P P 20010321

AB A method of **controlling** the **release** rate of an agricultural active ingredient, such as pesticide, from a **seed** that has been treated with that active includes providing a **seed** that has been treated with the active ingredient, applying to the treated **seed** a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer coating on the surface of the treated **seed**. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The **seed** is the **seed** of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

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2 L8 AND L12 AND L11

=> d ibib abs 1-2

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:736579 CAPLUS

DOCUMENT NUMBER: 137:228099

TITLE: Polymeric film **coatings** for seed treatment  
for **controlled release** of  
pesticides

INVENTOR(S): Ding, Yiwei; Asrar, Jawed

PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA

SOURCE: U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US2002134012	A1	20020926	2002US-0079000	20020218
WO2002080675	A1	20021017	2002WO-US04699	20020219
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: 2001US-277503P P 20010321

AB A method of **controlling** the **release** rate of an agricultural active ingredient, such as pesticide, from a seed that has been treated with that active ingredient includes providing a seed that has been treated with the active ingredient, applying to the treated seed a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer **coating** on the surface of the treated seed. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The seed is the seed of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:988109 CAPLUS

DOCUMENT NUMBER: 124:37704

TITLE: Use of fatty acid esters as bioadhesive substances

INVENTOR(S): Hansen, Jens; Sylvest Nielsen, Lise; Norling, Tomas

PATENT ASSIGNEE(S): A/S Dumex, Den.

SOURCE: PCT Int. Appl., 117 pp.

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CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO---9526715	A2	19951012	1995WO-DK00143	19950329
WO---9526715	A3	19951116		
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA---2186750	AA	19951012	1995CA-2186750	19950329
AU---9522550	A1	19951023	1995AU-0022550	19950329
AU---685262	B2	19980115		
EP---752855	A1	19970115	1995EP-0915817	19950329
EP---752855	B1	19990609		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP--09510980	T2	19971104	1995JP-0525360	19950329
AT---180971	E	19990615	1995AT-0915817	19950329
ES---2135723	T3	19991101	1995ES-0915817	19950329
FI---9603867	A	19961127	1996FI-0003867	19960927
NO---9604113	A	19961127	1996NO-0004113	19960927
PRIORITY APPLN. INFO.:		1994DK-0000370 A 19940330		
		1995WO-DK00143 W 19950329		

AB The fatty acid esters as bioadhesive substances have mol. wts. < 1000 dalton and the fatty acid component of the fatty acid ester is a satd. or unsatd. fatty acid having a total no. of carbon atoms of C8-22. Particularly suitable fatty acid esters for use according to the invention are esters of polyhydric alcs., hydroxycarboxylic acids, monosaccharides, glycerylphosphate derivs., glycerylsulfate deriv., and mixts. thereof. Excellent bioadhesive properties have been obsd. for fatty acid esters of glyceryl monooleate, glyceryl monolinoleate or glyceryl monolinolenate. Methods are described for administering an active or protective substance to undamaged or damaged skin or mucosa of an animal such as a human by combining the active or protective substance with a bioadhesive fatty acid ester. The mucosa may be the oral, aural, nasal, lung, gastrointestinal, vaginal, or rectal mucosa. The administration may also be to body cavities such as the oral cavity, e.g. via buccal administration. Glyceryl monooleate (GMO) 48 was mixed with ethanol 32 and lidocaine-HCl 20 g, resp., and tested for bioadhesiveness. A residual amt. of .apprx.71% wt./wt. GMO was found after testing.

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2/3,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10839990 BIOSIS NO.: 199799461135

Effects of specific gravity and food on bioavailability of  
controlled-release multiple unit dosage forms.

AUTHOR: Ikegami Kengo; Yamahara Hiroshi; Ohsawa Takashi; Murata Kazuo;  
Kobayashi Masao

AUTHOR ADDRESS: Pharm. Res. Lab., Tanabe Seiyaku Co. Ltd., 3-16-89,  
Kashima, Yodogawa-ku, Osaka 532\*\*Japan

JOURNAL: Yakuzaigaku 56 (4):p171-177 1996

ISSN: 0372-7629

RECORD TYPE: Abstract

LANGUAGE: Japanese; Non-English

SUMMARY LANGUAGE: Japanese; English

ABSTRACT: The influence of the specific gravities of beads and food on the bioavailability of \*controlled\*-release\* multiple unit dosage forms was investigated. Beads of various specific gravities were prepared using alumina, sucrose and foamed polystyrene as the \*seed\* materials of the core beads. \*Controlled\*-release\* beads for theophylline, were prepared so as to have the same \*release\* profiles, of which the half-dissolution \*time\* was about 5 h, by \*coating\* the core beads with \*ethylcellulose\*. The specific gravities of the \*controlled\*-release\* beads produced were 2.3 (TD-H, \*seed\*: alumina), 1.2 (TD-M, \*seed\*: sucrose) and 0.5 (TD-L, \*seed\*: foamed polystyrene). The beads were filled in 2 gelatin capsules and administered in 100 mg...

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>>>KWIC option is not available in file(s): 399

2/3,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

10839990 BIOSIS NO.: 199799461135

Effects of specific gravity and food on bioavailability of  
controlled-release multiple unit dosage forms.

AUTHOR: Ikegami Kengo; Yamahara Hiroshi; Ohsawa Takashi; Murata Kazuo;  
Kobayashi Masao

AUTHOR ADDRESS: Pharm. Res. Lab., Tanabe Seiyaku Co. Ltd., 3-16-89,  
Kashima, Yodogawa-ku, Osaka 532\*\*Japan

JOURNAL: Yakuzaigaku 56 (4):p171-177 1996

ISSN: 0372-7629

RECORD TYPE: Abstract

LANGUAGE: Japanese; Non-English

SUMMARY LANGUAGE: Japanese; English

ABSTRACT: The influence of the specific gravities of beads and food on the bioavailability of \*controlled\*-release\* multiple unit dosage forms was investigated. Beads of various specific gravities were prepared using alumina, sucrose and foamed polystyrene as the \*seed\* materials of the core beads. \*Controlled\*-release\* beads for theophylline, were prepared so as to have the same \*release\* profiles, of which the half-dissolution \*time\* was about 5 h, by \*coating\* the core beads with \*ethylcellulose\*. The specific gravities of the \*controlled\*-release\* beads produced were 2.3 (TD-H, \*seed\*: alumina), 1.2 (TD-M, \*seed\*: sucrose) and 0.5 (TD-L, \*seed\*: foamed polystyrene). The beads were filled in 2 gelatin capsules and administered in 100 mg...



2/3,K/2 (Item 2 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

09508494 BIOSIS NO.: 199497516864  
In vitro/in vivo correlations of sustained-release coated multiparticulate formulations of doxazosin.  
AUTHOR: Thombre A G(a); Denoto A R; Falkner F C; Lazar J D  
AUTHOR ADDRESS: (a)Warner-Lambert Co., Morris Plains, NJ 07950\*\*USA  
JOURNAL: International Journal of Pharmaceutics (Amsterdam) 111 (2):p 181-189 1994  
ISSN: 0378-5173  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: Sustained-\*release\* \*coated\* multiparticulates of doxazosin were prepared by layering the drug onto nonpareil \*seeds\* and then \*coating\* these drug-layered beads with a rate-\*controlling\* membrane made from a mixture of \*ethylcellulose\* (EC) and hydroxypropylcellulose (HPC). The in vitro doxazosin \*release\* rates were dependent on the external medium and increased with the ratio of HPC/EC...

2/3,K/3 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02148039 70230179  
Release of phenylpropanolamine HCI from ethylcellulose-coated pellets in biorelevant media  
Loi, Vassiliki; Fotaki, Nikoletta; Reppas, Christos; Wheatley, Thomas; Dressman, Jennifer  
Pharmaceutical Technology v25n3 PP: 44-50+ Mar 2001  
ISSN: 0147-8087 JRNL CODE: PHTY  
WORD COUNT: 2590

...TEXT: B. Dressman et al., "Dissolution Testing as a Prognostic Tool for Oral Drug Absorption: Immediate \*Release\* Dosage Forms," Pharm. Res. 15 (1),11-22 (1998).

2 J.B. Dressman et al., "Circumvention of pH Dependent \*Release\* from \*Ethylcellulose\*-\*Coated\* Pellets," J. \*Controlled\* \*Release\* 36, 251-260 (1995).

3. L. Araujo et al., "\*\*Release\* Characteristics of Phenylpropanolamine/Microcrystalline Cellulose \*Seeds\* Overcoated with \*Ethylcellulose\*"; Pharm. Technol. 23 (9), 60-70 (1999).

4. M. Efentakis and J.B. Dressman, "Gastric...

2/3,K/4 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

09972536 Supplier Number: 90103991 (USE FORMAT 7 FOR FULLTEXT)  
Agricultural publications Summit InfoExpo guide. (Agricultural Publications Summit, LLC).(Brief Article)  
Agri Marketing, v40, n7, pI-14(4)

July-August, 2002  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 3334

... polymer products, for a variety of food, agricultural, and licensed partner applications. The Intellicoat(R) \*seed\* \*coating\* technology is a functional polymer \*seed\* \*coating\* that is based on proprietary Intelimer(TM) \*polymers\*. Three ag applications of Intellicoat are: early plant \*coatings\*, pollinator plus and relay cropping. Other crops and applications for the technology that are currently under consideration include: \*time\*/temperature \*release\* of \*seed\* applied pesticides, fall planted crops such as canola, and vegetable seed applications.

Spokesperson/title: Bill...

2/3,K/5 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

08127188 Supplier Number: 67832184 (USE FORMAT 7 FOR FULLTEXT)  
**MORE THAN A COVER-UP.**

Crabb, Charlene; D'Aquino, Rita; Kamiya, Takeshi  
Chemical Engineering, v107, n12, p41  
Nov, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Refereed; Trade  
Word Count: 1833

... venture to establish new technologies for agrochemical companies. One of the targeted areas is functional \*coatings\* for \*seeds\*. According to Uniqema, company researchers will be developing natural and synthetic \*polymers\* for \*seed\* \*coatings\* that will have "tunable" adhesion, oxygen permeability, moisture sensitivity and temperature-sensitive \*release\* rates for active ingredients and nutrients.

Already in the fields are functional \*seed\* \*coatings\* by Landec Ag, Inc. (Monticello, Ind.), a subsidiary of Landec Corp. (Menlo Park, Calif.). The company has developed and patented \*polymers\* used in its Intellicoat \*coatings\*, which regulate germination by \*controlling\* when \*seeds\* begin imbibing water. Based on C12-C25 side-chained \*polymers\*, these \*coatings\* are temperature-activated -- below their melting points, the \*polymers\* have a crystalline structure that is impermeable to moisture, but once the surrounding soil warms up enough, the \*seed\* \*coatings\* melt, thereby becoming amorphous and allowing water to permeate and germination to begin.

This temperature...

2/3,K/6 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

06863317 Supplier Number: 57578856 (USE FORMAT 7 FOR FULLTEXT)  
**California, here I come.**  
Food Processing, v60, n10, p12  
Oct, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 219

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...based Landec Corp., which makes breathable membrane for packaging fresh-cut produce, has developed a \*time\*--\*release\* \*seed\* that could change the way farmers plant their fields, reports the Wall Street Journal. The \*seeds\*, developed at a cost of \$10 million, are \*coated\* with an acrylic \*polymer\*, which acts like a temperature triggered switch. When the soil warms to a certain level...

2/3,K/7 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2002 Inst for Sci Info. All rts. reserv.

02397037 Genuine Article#: KY494 No. References: 24

Title: DRUG RELEASE FROM TRIBLOCK COPOLYMERS OF POLY(HYDROXYALKYL L-GLUTAMINE)-POLY(ETHYLENE OXIDE)-POLY(HYDROXYALKYL L-GLUTAMINE)

Author(s): CHO CS; BAE YH; KIM SW

Corporate Source: UNIV UTAH,CTR CONTROLLED CHEM DELIVERY,DEPT PHARMACEUT & PHARMACEUT CHEM/SALT LAKE CITY//UT/84112

Journal: ACS SYMPOSIUM SERIES, 1993, V520, P274-287

ISSN: 0097-6156

Language: ENGLISH Document Type: REVIEW (Abstract Available)

Research Fronts: 91-1045 001 (\*POLYMER\* LIQUID-CRYSTAL COMPOSITE FILMS; FACILITATED TRANSPORT MECHANISM IN FIXED SITE CARRIER MEMBRANES; VISCOSITY OF DILUTE POLYELECTROLYTE SOLUTIONS)

91-7310 001 (INTERSTITIAL CHEMOTHERAPY; SURFACE CHEMICAL-STRUCTURE; BIOCOMPATIBLE \*CONTROLLED\* \*RELEASE\* \*POLYMERS\*)

91-8002 001 (ULTRASTRUCTURE OF SPONTANEOUS NODULES; WHEAT SEEDLINGS; CALCIUM-OXALATE CRYSTAL-FORMATION IN THE BEAN (PHASEOLUS-VULGARIS L) \*SEED\* \*COAT\*)

2/3,K/8 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

(c) 2002 ProQuest Info&Learning. All rts. reserv.

1031843 ORDER NO: AAD88-25791

PHYSOSTIGMINE: STABILITY KINETICS, ASSAY DEVELOPMENT, PREFORMULATION STUDIES OF INJECTIONS AND THE DEVELOPMENT OF SLOW RELEASE ORAL PREPARATIONS

Author: YANG, SHIU-LIN SHIRLEY TUAN

Degree: PH.D.

Year: 1988

Corporate Source/Institution: AUBURN UNIVERSITY (0012)

Source: VOLUME 49/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3701. 138 PAGES

...provided no protection. No detectable amount of physostigmine remained in the unbuffered solutions after autoclaving.

\*Slow\*--\*release\* pellets of chlorpheniramine maleate and physostigmine sulfate were prepared by loading the drugs with an aqueous film \*coat\* onto nonpareil \*seeds\* followed by encapsulation with \*ethylcellulose\* applied as an aqueous dispersion by the Wurster process. The \*release\* of the model drug, chlorpheniramine, appeared to follow first-order kinetics. The \*release\* rate constants were inversely proportional to particle size and the amount of the sustaining \*coat\* on the \*seeds\*. Reducing pH of the dissolution media increased the \*release\* rate constants. The elevated process temperatures did not cause degradation of physostigmine. Tableting \*coated\* pellets of chlorpheniramine maleate increased \*release\* rates of the drug. Incorporating hydroxypropyl methylcellulose of 4000 cps in the tablet formulation reduced...

2/3,K/9 (Item 1 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.

02355823 CAB Accession Number: 911152141

**Release and field performance of pesticides in film-coated vegetable seeds.**

Kosters, P. S. R.  
Sluis & Groot Research, Zaadunie B.V., Enkhuizen, Netherlands.  
Conference Title: Brighton Crop Protection Conference. Pests and Diseases - 1988. Vol. 2.  
p.859-866  
Publication Year: 1988  
Publisher: British Crop Protection Council -- Thornton Heath, UK  
ISBN: 0-948404-26-4  
Language: English  
Document Type: Conference paper

--  
The effect of \*polymers\* used in film-\*coating\* on the \*release\* of active ingredient (a.i.) of pesticides depends on \*seed\* type and temperature. At lower temperatures \*release\* is \*slower\* in a water-based laboratory system. Field performance of chlorfenvinphos in film-\*coated\* carrot \*seed\* for protection against Psila rosae in the Netherlands was comparable to field applications of the...

2/3,K/10 (Item 1 from file: 53)  
DIALOG(R)File 53:FOODLINE(R): Food Science & Technology  
(c) 2002 LFRA. All rts. reserv.

00481697 FOODLINE ACCESSION NUMBER: 447405

**Agricultural uses of hydrocolloids.**

Nussinovitch A  
Hydrocolloid applications: gum technology in the food and other industries.  
169-189 (127 ref.)  
Nussinovitch A  
PUBLISHER: Blackie, London  
1997  
ISBN NO: 0-412-62120-7  
CLASSIFICATION: 668.4  
LANGUAGE: English  
DOCUMENT TYPE: Book; Book chapter

ABSTRACT: This chapter describes \*controlled\*-\*release\* systems for agricultural chemicals, such as pesticides, herbicides, fungicides, growth regulators and fertilisers. Consideration is given to \*polymer\* \*seed\* \*coatings\* that absorb water and increase the chance of germination; \*coatings\* for fresh produce, that allow fruits and vegetables to continue their metabolic activity after harvest.

2/3,K/11 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

07584593 EMBASE No: 1999077493

**Rhizobacteria microencapsulation: Properties of microparticles obtained by spray-drying**

Amiet-Charpentier C.; Gadille P.; Benoit J.P.  
J.P. Benoit, UPRES EA 2169, 'Vectorisation Particulaire', Faculte de  
Pharmacie, 16 Bd Daviers, 49100 Angers France  
Journal of Microencapsulation ( J. MICROENCAPSULATION ) (United Kingdom)  
1999, 16/2 (215-229)  
CODEN: JOMIE ISSN: 0265-2048  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 24

...humidities of 33 and 55%. The release of the encapsulated bacteria was  
also studied over \*time\*. The \*release\* was fast, the bacteria being  
observed at 15 min immersion of the Eudragit(R) microparticles...

...an aqueous-buffer medium at 20degreeC. This results related to the  
physicochemical character of the \*coating\* \*polymer\*, showed that water was  
the triggering element for the \*release\* of rhizobacteria. Compatibility  
studies between two film-forming agents used for \*seed\* \*coatings\* and the  
encapsulated bacteria, as well as wettability measures of tableted  
microparticles, were carried out. The bacterial survival was good with the  
\*seed\* \*coating\* agent, Sepiret(R) 1039G, and the wettability measurements  
of agglomerated microparticles were in accord with the rapid \*release\* of  
the microencapsulated bacteria. The application of microparticles  
containing rhizobacteria on \*seeds\* can now be considered for preliminary  
trials.

2/3,K/12 (Item 1 from file: 74)  
DIALOG(R)File 74:Int.Pharm.Abs.  
(c) 2002 Amer.Soc.of Health-System Pharm. All rts. reserv.

00252760 33-03169  
SUSTAINED RELEASE FLURBIPROFEN BEADS  
Pandey, S.; Singh, U. V.; Udupa, N.  
Coll. of Pharm. Sci., K. M. C., Manipal-576 119, India  
Indian Journal of Pharmaceutical Sciences (India), V57, (3), p102-104, 1995  
CODEN: IJSIDW ISSN: 0250-474X LANGUAGE: English RECORD TYPE: Abstract

A pan \*coating\* procedure for dried edible ripened plant \*seeds\* of  
Paspalum scrobiculatum \*coated\* with flurbiprofen and \*ethylcellulose\*,  
which was developed for the design of an oral \*controlled\* \*release\*  
preparation of the drug, is described.

In vitro dissolution and bioavailability studies in 6 healthy  
volunteers showed the \*coated\* \*seeds\* to be comparable to a marketed  
product.

2/3,K/13 (Item 1 from file: 129)  
DIALOG(R)File 129:PHIND(Archival)  
(c) 2002 PJB Publications, Ltd. All rts. reserv.

00487944  
New generation launch for Original seed  
ASI 2612 p7, March 22, 1996 (19960322)  
STORY TYPE: F WORD COUNT: 177

...promoting  
agent will be carried on the seed surface by Nickerson's patented  
seed film \*coating\* technique. The \*coating\* is applied as a "chain  
mail" mesh, allowing moisture to come into contact with the \*seed\*,  
while providing \*slow\* \*release\* protection against pests and

diseases. The improved \*polymer\* carrier is more accurate on a \*seed\*-by-\*seed\* basis than conventional slurry-type treatments, says cereals product manager Lee Robinson. The \*seed\* comes with a purity and germination declaration "significantly better" than official standards, says Nickerson. Last...

2/3,K/14 (Item 2 from file: 129)  
DIALOG(R)File 129:PHIND(Archival)  
(c) 2002 PJB Publications, Ltd. All rts. reserv.

00321560  
**Landec/Gustafson study novel seed coating**  
Agrow 167 p13, September 04, 1992 (19920904)  
STORY TYPE: F WORD COUNT: 147

...yields and reducing re-planting costs, Gustafson notes. Other potential advantages of using Intelimer include \*time\*-staggered germination to accommodate hybrid pollination, increased stand uniformity and earlier harvesting. In addition to its \*seed\* \*coating\* potential, the \*polymer\* is also being evaluated by American Cyanamid and Ciba-Geigy for use in \*controlled\*-\*release\* pesticide formulations (see Agrow No 138, p 24).

2/3,K/15 (Item 3 from file: 129)  
DIALOG(R)File 129:PHIND(Archival)  
(c) 2002 PJB Publications, Ltd. All rts. reserv.

00284992  
**Landec researches novel seed coating:**  
Agrow 142 p23, August 30, 1991 (19910830)  
STORY TYPE: B WORD COUNT: 94

...Menlo Park, California) has received a research grant from the USDA to develop a novel \*seed\* \*coating\* that allows temperature-\*controlled\* germination. Landec's proprietary temperature-sensitive \*polymer\*, Intelimer, can prevent \*coated\* \*seeds\* from imbibing moisture below a pre-determined temperature and therefore delay germination until conditions are more favourable, the company claims. The temperature at which the \*polymer\* becomes permeable can be selected to coincide with the optimum germination conditions for specific \*seeds\*. Landec is using the technology to develop \*controlled\*-\*release\* pesticide formulations under agreements with Cyanamid and Ciba-Geigy (see Agrow No 138, p 24).

2/3,K/16 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2002 INIST/CNRS. All rts. reserv.

15653647 PASCAL No.: 02-0359380  
**Effects of double encapsulation and coating on synthetic seed conversion in M.26 apple rootstock**  
MICHELI M; PELLEGRINO S; PICCIONI E; STANDARDI A  
Department of Arboriculture and Plant protection, University of Perugia, Borgo XX Giugno, 74, 06121 Perugia, Italy  
Journal: Journal of microencapsulation, 2002, 19 (3) 347-356  
Language: English

Copyright (c) 2002 INIST-CNRS. All rights reserved.

English Descriptors: Pharmaceutical technology; Malus domestica; Bud; Encapsulation; Artificial \*seed\*; Rooting; Alginates; \*Control\* \*release\* \*polymer\*; \*Coating\*; Physical structure; Physicochemical properties; Viability; Regrowth; Callus; Fabrication property relation

2/3,K/17 (Item 2 from file: 144)

DIALOG(R)File 144:Pascal

(c) 2002 INIST/CNRS. All rts. reserv.

14697960 PASCAL No.: 00-0373196

**Modulation of drug release rate of diltiazem-HCl from hydrogel matrices of succinic acid-treated ispaghula husk**

GOHEL M C; AMIN A F; CHHABARIA M T; PANCHAL M K; LALWANI A N

Department of Pharmaceutical Technology, L. M. College of Pharmacy, Navrangpura, Ahmedabad 380 009, India

Journal: Pharmaceutical development and technology, 2000, 5 (3) 375-381

Language: English

Copyright (c) 2000 INIST-CNRS. All rights reserved.

English Descriptors: Pharmaceutical technology; Dosage form; Diltiazem; Calcium antagonist; \*Slow\* \*release\* form; \*Succinic\* acid; Tablet; Hydrogel; Swelling; Mechanical properties; Dissolution; \*Release\*; In vitro; Mathematical model; Mathematical analysis; Forecast model; Vehicle(excipient); Benzothiazepine derivatives; Plantago; \*Seed\* \*coating\*; Matrix tablet

2/3,K/18 (Item 1 from file: 322)

DIALOG(R)File 322:Polymer Online

(c) 1990 John Wiley & Sons Inc. All rts. reserv.

201240000 Summary

Chapter CH=20124

Type TY=201240

Unit UN=201240000

**Chapter Title: Agricultural Applications**

Author: McCormick, Charles L.

Institution: University of Southern Mississippi

Source: Encyclopedia of Polymer Science and Engineering, Second Edition, Vol. 1, Pages 611-622.

Number of Sections = 5 Tables = 3 Descriptors= 168 References = 63

**Abstract:**

... Biodegradable and photodegradable plastic mulches have been developed, as well as a wide range of \*polymers\* for \*controlled\* \*release\* of herbicides, fungicides, insecticides, pheromones, plant growth regulators, and fertilizers. Water-swellable \*polymers\* have been used in \*seed\* \*coating\*, hydromulching, and gel planting. \*Polymeric\* adjuvants are used as wetting agents, compatibility agents, spreader-stickers, and flow aids. Continual growth of agricultural \*polymers\* is anticipated as macromolecules are tailored for specific applications. Vol. 1, pp. 611-622, 62...

**Section Headings:**

Untitled  
Plastic Film, Sheets, and Composites  
Mulches  
Mulches  
Greenhouses and Row \*Covers\*  
Greenhouses and Row \*Covers\*  
\*Polymers\* for \*Controlled\* \*Release\* of Agricultural Chemicals  
Mechanisms of \*Release\*  
Mechanisms of \*Release\*  
Herbicides, Insecticides, Nematicides, and Pheromones  
Herbicides, Insecticides, Nematicides, and Pheromones  
Fertilizers  
Fertilizers  
Water-soluble, -swellable, or-dispersible \*Polymers\*  
\*Seed\* \*Coating\*  
\*Seed\* \*Coating\*  
Gel Planting  
Gel Planting  
Soil Conditioning  
Soil Conditioning  
\*Polymeric\* Adjuvants  
\*Polymeric\* Adjuvants  
Future

2/3,K/19 (Item 2 from file: 322)  
DIALOG(R)File 322:Polymer Online  
(c) 1990 John Wiley & Sons Inc. All rts. reserv.

201241000 Text  
Chapter CH=20124  
Type TY=201241  
Unit UN=201241000

Chapter Title: Agricultural Applications  
Section Heading: Untitled

Text:

... 2) in the 1930s and 1940s for greenhouse covering, fumigation, and mulching, agricultural applications of \*polymers\* have grown at an enormous rate. All principal classes of \*polymers\*, ie, plastics, \*coatings\*, elastomers, fibers, and water-soluble \*polymers\*, are presently utilized in applications, which include \*controlled\* \*release\* of pesticides and nutrients, soil conditioning, \*seed\* \*coating\*, gel planting, and plant protection. Additionally, \*polymers\* are becoming increasingly important as structural components of farm buildings and machinery, for water transport and \*control\*, and in packaging of produce (3).

The structural, vascular, and storage components of plants themselves...

2/3,K/20 (Item 1 from file: 323)  
DIALOG(R)File 323:RAPRA Rubber & Plastics  
(c) 2002 RAPRA Technology Ltd. All rts. reserv.

00349188  
TITLE: POLYMERS IN AGRICULTURE: POLYMERS FOR THE CONTROLLED RELEASE OF  
ACTIVE AGENTS IN AGRICULTURE  
AUTHOR(S): Mateo J L; Sastre R  
CORPORATE SOURCE: INSTITUTO DE PLASTICOS Y CAUCHO  
SOURCE: Revista de Plasticos Modernos; 53, No.371, May 1987, p.616-23



ISSN: 0034-8708

CODEN: RPMOAM JOURNAL ANNOUNCEMENT: 198805 RAPRA UPDATE: 198807

DOCUMENT TYPE: Journal Article

LANGUAGE: Spanish

SUBFILE: (R) RAPRA

ABSTRACT: Consideration is given to the use of plastics and rubber matrices for the \*controlled\* \*release\* of pesticides, herbicides, biocides and fertilisers in agriculture. Details are given of a range of commercial systems, and the use of \*polymers\* in \*seed\* \*coatings\* and soil treatment is also discussed. 38 refs.

2/3,K/21 (Item 1 from file: 340)

DIALOG(R) File 340:CLAIMS(R)/US Patent

(c) 2002 IFI/CLAIMS(R). All rts. reserv.

10190308 2002-0134012

**M/METHOD OF CONTROLLING THE RELEASE OF AGRICULTURAL ACTIVE INGREDIENTS FROM TREATED PLANT SEEDS**

Inventors: Asrar Jawed (US); Ding Yiwei (US)

Assignee: Monsanto Technology LLC

Assignee Code: 58657

	Kind	Publication Number	Date	Application Number	Date
	-----	-----	-----	-----	-----
	A1	US 20020134012	20020926	US 200279000	20020218
Priority Applic:				US 200279000	20020218
Provisional Applic:				US 60-277503	20010321

Abstract: A method of \*controlling\* the \*release\* rate of an agricultural active ingredient from a \*seed\* that has been treated with that active ingredient, applying to the treated \*seed\* a film that includes an emulsion of a \*polymer\* in a liquid in which both the agricultural active ingredient and the \*polymer\* have low levels of solubility, and then curing the film to form a water insoluble polymer \*coating\* on the surface of the treated seed. Seeds that have been treated by this method...

2/3,K/22 (Item 2 from file: 340)

DIALOG(R) File 340:CLAIMS(R)/US Patent

(c) 2002 IFI/CLAIMS(R). All rts. reserv.

10007678 2001-0007681 2001-0002136

**C/DILTIAZEM CONTROLLED RELEASE FORMULATION AND METHOD OF MANUFACTURE; COATED PELLETS**

Inventors: CHEN CHIH-MING (US); CHENG XIU XIU (US); JAN STEVE (US)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

	Kind	Publication Number	Date	Application Number	Date
	-----	-----	-----	-----	-----
	A1	US 20010007681	20010712	US 1998119323	19980720
Priority Applic:				US 98119323	19980720

Abstract: A \*controlled\* \*release\* diltiazem dosage formulation comprising a plurality of active pellets \*coated\* with an extended \*release\* \*coating\*

wherein the active pellets contain diltiazem or a pharmaceutically acceptable salt, a pharmaceutically acceptable inert \*seed\* and a binder and the extended \*release\* \*coating\* contains a water insoluble water permeable \*polymer\*, a channeling agent, a lubricant and optionally a surfactant. A single batch intermittent method of...

2/3,K/23 (Item 3 from file: 340)  
DIALOG(R)File 340:CLAIMS(R)/US Patent  
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

3186764 9926036

C/CONTROLLED RELEASE COATED AGRICULTURAL PRODUCTS; \*CONTROLLED\* \*RELEASE\*  
\*COATED\* AGRICULTURE PRODUCT OF \*SEED\* \*COATED\* WITH AMORPHOUS  
ALKYLENE-SULFUR \*COPOLYMER\*

Inventors: Wellinghoff Stephen T (US)  
Assignee: Southwest Research Institute  
Assignee Code: 78576

	Kind	Publication Number	Date	Application Number	Date
	A	US 5939356	19990817	US 97878667	19970619
Priority Applic:				US 97878667	19970619
Provisional Applic:				US 60-20790	19960621
Calculated Expiration:					20170619

...\*CONTROLLED\* \*RELEASE\* \*COATED\* AGRICULTURE PRODUCT OF \*SEED\* \*COATED\*  
WITH AMORPHOUS ALKYLENE-SULFUR \*COPOLYMER\*

Abstract: \*Controlled\* \*release\* \*coated\* agricultural products comprising agricultural chemicals, \*seed\*, or mixtures thereof \*coated\* with an environmentally degradable amorphous alkene-sulfur \*copolymer\* are disclosed. Also disclosed is the process of making such products, preferably by \*coating\* with a molten copolymer and then cooling to harden the coating of copolymer about the...

Exemplary Claim: 1. A composition comprising a \*controlled\* \*release\*  
\*coated\* agricultural product comprising an agricultural chemical,  
\*seed\*, or mixture thereof \*coated\* with an environmentally degradable  
amorphous alkene-sulfur \*copolymer\* containing dissolved S<sub>8</sub> and  
polymeric sulfur.

Non-exemplary Claims: ...10. A process of making a \*controlled\* \*release\*  
\*coated\* agricultural product comprising an agricultural chemical,  
\*seed\*, or mixture thereof comprising \*coating\* said agricultural  
product with an environmentally degradable and amorphous alkene-sulfur  
\*copolymer\* containing dissolved S<sub>8</sub> and polymeric sulfur, said \*coating\*  
being of a thickness sufficient to \*control\* \*release\* of said  
agricultural product due to environmental degradation...

2/3,K/24 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

03613264 \*\*Image available\*\*  
TONER FOR DEVELOPING ELECTROSTATIC CHARGE IMAGE AND PRODUCTION THEREOF

PUB. NO.: 03-276164 [JP 3276164 A]  
PUBLISHED: December 06, 1991 (19911206)  
INVENTOR(s): KANEKO GIICHI

APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 02-075631 [JP 9075631]  
FILED: March 27, 1990 (19900327)  
JOURNAL: Section: P, Section No. 1323, Vol. 16, No. 100, Pg. 6, March  
11, 1992 (19920311)

#### ABSTRACT

... is obtained by diazotizing a p-dialkylaminoanilino derivative and coupling the diazotized derivative with fluoroglycine. \*Polymerized\* particles obtained by \*seed\* \*polymerization\* or dispersion \*polymerization\* may be used as the resin particles. A \*coating\* layer of an electrostatic charge \*control\* agent or a \*releasable\* substance may be formed on the surface of each of the dyed particles.

2/3,K/25 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2002 European Patent Office. All rts. reserv.

01403276

Intermittent administration of a growth hormone secretagogue  
Intermittierende Verabreichung eines Wachstumshormon-sekretionsforderers  
Administration intermittente d'un secretagogue d'hormone de croissance  
PATENT ASSIGNEE:

Pfizer Products Inc., (2434221), Eastern Point Road, Groton, Connecticut  
06340, (US), (Applicant designated States: all)

INVENTOR:

Maclean, David Burton, Pfizer Global, Research and Development, Eastern  
Point Road, Groton, Connecticut 06340, (US)

LEGAL REPRESENTATIVE:

Ruddock, Keith Stephen et al (75661), Pfizer Limited, European Patent  
Department, Ramsgate Road, Sandwich, Kent CT13 9NJ, (GB)

PATENT (CC, No, Kind, Date): EP 1186293 A2 020313 (Basic)

APPLICATION (CC, No, Date): EP 2001307229 010824;

PRIORITY (CC, No, Date): US 229077 P 000830

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61K-031/00; A61K-031/437; A61K-031/444;

A61P-003/04; A61P-003/10; A61P-009/04; A61P-019/00; A61P-019/10

ABSTRACT WORD COUNT: 23

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200211	493
SPEC A	(English)	200211	22157
Total word count - document A			22650
Total word count - document B			0
Total word count - documents A + B			22650

...SPECIFICATION multiparticulates.

Another preferred process for making multiparticulate cores of this embodiment is the process of \*coating\* \*seed\* cores with GHSEC and optionally other excipients, as previously discussed for matrix multiparticulates.

A sustained \*release\* \*coating\* as is known in the art, especially \*polymer\* \*coatings\*, may be employed to fabricate the membrane, as previously discussed for reservoir systems. Suitable and preferred \*polymer\* coating materials, equipment, and coating methods also include

those previously discussed.

The rate of GHSEC release from the coated multiparticulates can also be \*controlled\* by factors such as the composition and binder content of the active compound-containing core...

2/3,K/26 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01256812

**Herbicidal composition**

**Herbizide Zusammensetzung**

**Composition herbicide**

**PATENT ASSIGNEE:**

Novartis AG, (2240421), Schwarzwaldallee 215, 4058 Basel, (CH),  
(Applicant designated States: all)

**INVENTOR:**

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**LEGAL REPRESENTATIVE:**

Becker, Konrad (59745), Novartis AG, Patent und Markenabteilung  
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PATENT (CC, No, Kind, Date): EP 1084618 A1 010321 (Basic)

APPLICATION (CC, No, Date): EP 120012 000914;

PRIORITY (CC, No, Date): CH 991700 990916

DESIGNATED STATES: DE; FR; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A01N-043/80; A01N-037/42; A01N-025/32

ABSTRACT WORD COUNT: 60

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200112	114
SPEC A	(English)	200112	2222
Total word count - document A			2336
Total word count - document B			0
Total word count - documents A + B			2336

...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is applied to the open furrow in which the \*seeds\* have been sown. After \*covering\* the furrow, the herbicide is applied pre-emergence in conventional manner.

iv) \*Controlled\* \*release\* of compound

The compound of formula II is applied in solution to a mineral granular carrier or to \*polymerised\* granules (urea/formaldehyde) and then dried. A coating can then be applied (coated granules) that...

2/3,K/27 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01246743

**Seed coating compositions for low temperature applications**

**Samenbeschichtungszusammensetzung zur Anwendungen bei niedriger Temperatur**

**Compositions de revetement de graines pour application a basse temperature**

**PATENT ASSIGNEE:**

National Starch and Chemical Investment Holding Corporation, (1222944),  
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designated States: all)  
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 LEGAL REPRESENTATIVE:  
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 PATENT (CC, No, Kind, Date): EP 1078563 A1 010228 (Basic)  
 APPLICATION (CC, No, Date): EP 117372 000823;  
 PRIORITY (CC, No, Date): US 382434 990825  
 DESIGNATED STATES: DE; FR; GB  
 EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
 INTERNATIONAL PATENT CLASS: A01C-001/06  
 ABSTRACT WORD COUNT: 147

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200109	245
SPEC A	(English)	200109	3958
Total word count - document A			4203
Total word count - document B			0
Total word count - documents A + B			4203

...ABSTRACT Tg of -60(degree)C to 20(degree)C, provided that the Tg of the  
 \*polymer\* is less than or equal to the seed surface temperature at the  
 \*time\* of application. The seed \*coating\* compositions of the invention  
 provide a matrix which entraps active ingredients and improves seedling  
 survival by maintaining the active ingredient on the surface of the  
 \*seed\* for a period of \*time\*. The \*seed\* \*coating\* also increases the  
 safety of using an active ingredient by reducing operator exposure and  
 environmental \*release\*. In addition, the \*seed\* \*coating\* composition is  
 resistant to cracking and flaking even when the \*seed\* \*coating\*  
 composition is applied at a temperature of less than 20(degree)C.  
 Moreover, the \*seed\* \*coating\* composition improves the uniformity of  
 seed size and shape which is advantageous to mechanical planting...

...SPECIFICATION Tg of -60(degree)C to 20(degree)C, provided that the Tg of  
 the \*polymer\* is less than or equal to the seed surface temperature at  
 the \*time\* of application.

The seed \*coating\* compositions of the invention provide a matrix which  
 entraps active ingredients and improves seedling survival by maintaining  
 the active ingredient on the surface of the \*seed\* for a period of \*time\*  
 . The \*seed\* \*coating\* also increases the safety of using an active  
 ingredient by reducing operator exposure and environmental \*release\*. In  
 addition, the \*seed\* \*coating\* composition is resistant to cracking and  
 flaking even when the \*seed\* \*coating\* composition is applied at a  
 temperature of less than 20(degree)C. Moreover, the \*seed\* \*coating\*  
 composition improves the uniformity ...is advantageous to mechanical  
 planting techniques.

Virtually any seed can be treated with the seed \*coating\* composition  
 of the invention, such as cereals, vegetables, ornamentals, and fruits.  
 Preferably the seeds are...

2/3,K/28 (Item 4 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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01050253

**Controlled release tacrine dosage form**

**Tacrine enthaltende Dosierungsform zur kontrollierten Freigabe**

**Forme de dosage a liberation controllee comprenant de la tacrine**

**PATENT ASSIGNEE:**

DEVELOPMENT CENTER FOR BIOTECHNOLOGY, (1114340), 81 Chang Hsing Street,  
Taipei, (TW), (applicant designated states:

AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

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PATENT (CC, No, Kind, Date): EP 928610 A1 990714 (Basic)

APPLICATION (CC, No, Date): EP 98300102 980108;

PRIORITY (CC, No, Date): EP 98300102 980108

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: A61K-031/645; A61K-009/50;

ABSTRACT WORD COUNT: 45

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9928	457
SPEC A	(English)	9928	5004
Total word count - document A			5461
Total word count - document B			0
Total word count - documents A + B			5461

...SPECIFICATION compliance of the medicine, in particular to senile people.

USP 5,576,022 discloses a \*controlled\* \*release\* tacrine drug delivery system comprising immediate \*release\* pellets and sustained \*release\* pellets. The immediate \*release\* pellets are formed by \*coating\* non-pareil \*seeds\* with a \*coating\* comprising tacrine and a binder, and then with a \*coating\* comprising a sealing agent and a plasticizing agent. The sustained \*release\* pellets are formed by \*coating\* the immediate \*release\* pellets with a sustained release \*coating\* comprising a water insoluble \*polymer\*, a water soluble \*polymer\* and a second plasticizing agent.

The delivery system of the above patent may \*control\* the release of tacrine. However, as the sustained release pellets are multilayered, the preparation procedures...

2/3,K/29 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00887941

**HERBICIDAL SYNERGISTIC COMPOSITION AND METHOD OF WEED CONTROL**

**HERBIZIDE SYNERGISTISCHE ZUSAMMENSETZUNG UND VERFAHREN ZUR  
UNKRAUTBEKAMPFUNG**

**COMPOSITION HERBICIDE SYNERGIQUE ET PROCEDE DE LUTTE CONTRE LES MAUVAISES  
HERBES**

PATENT ASSIGNEE:

Syngenta Participations AG, (3172801), Schwarzwaldallee 215, 4058 Basel, (CH), (Proprietor designated states: all)

INVENTOR:

RUEGG, Willy, Felmetweg 6, CH-5073 Gipf-Oberfrick, (CH)

LEGAL REPRESENTATIVE:

Becker, Konrad et al (59741), Novartis AG Geistiges Eigentum Konzern  
Patent- und Markenabteilung CH Postfach, 4002 Basel, (CH)

PATENT (CC, No, Kind, Date): EP 888057 A1 990107 (Basic)

EP 888057 B1 010905

WO 9734485 970925

APPLICATION (CC, No, Date): EP 97905150 970303; WO 97EP1055 970303

PRIORITY (CC, No, Date): CH 96692 960315

DESIGNATED STATES: BE; DE; ES; FR; GB; IT; LU; NL; SE

EXTENDED DESIGNATED STATES: SI

INTERNATIONAL PATENT CLASS: A01N-043/80; A01N-043/80; A01N-43:10;

A01N-37:22

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200136	174
CLAIMS B	(German)	200136	151
CLAIMS B	(French)	200136	203
SPEC B	(English)	200136	2716
Total word count - document A			0
Total word count - document B			3244
Total word count - documents A + B			3244

...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is applied to the open furrow in which the \*seeds\* have been sown. After \*covering\* the furrow, the herbicide is applied pre-emergence in conventional manner.

iv) \*Controlled\* \*release\* of safener

A solution of the safener is applied to mineral granulate substrates or \*polymerised\* granulates (urea/formaldehyde) and dried. A coating may additionally be applied (coated granulates) which permits \*controlled\* release of the safener over a specific period of time.

The rate of application can...

2/3,K/30 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00836075

SELECTIVE HERBICIDAL COMPOSITION

SELEKTIV-HERBIZIDES MITTEL

COMPOSITION HERBICIDE SELECTIVE

PATENT ASSIGNEE:

Novartis AG, (2240421), Schwarzwaldallee 215, 4058 Basel, (CH),  
(Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Roth, Bernhard M. et al (26602), Novartis AG Geistiges Eigentum Konzern,  
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PATENT (CC, No, Kind, Date): EP 837632 A1 980429 (Basic)

EP 837632 B1 990922

Karen Lehman EIC 3600 04-Dec-02

WO 9702747 970130  
APPLICATION (CC, No, Date): EP 96924823 960629; WO 96EP2857 960629  
PRIORITY (CC, No, Date): CH 952023 950711  
DESIGNATED STATES: ES; FR; IT  
INTERNATIONAL PATENT CLASS: A01N-047/36; A01N-043/90; A01N-043/54;  
A01N-043/50; A01N-025/32

NOTE:

No A-document published by EPO  
LANGUAGE (Publication, Procedural, Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9938	907
CLAIMS B	(German)	9938	897
CLAIMS B	(French)	9938	1076
SPEC B	(English)	9938	3613
Total word count - document A			0
Total word count - document B			6493
Total word count - documents A + B			6493

...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is applied to the open furrow in which the \*seeds\* have been sown. After \*covering\* the furrow, the herbicide is applied preemergence in conventional manner.

iii) \*Controlled\* \*release\* of safener

A solution of the compound of formula B is applied to mineral granulate substrates or \*polymerised\* granulates (urea/formaldehyde) and allowed to dry. A coating may additionally be applied (coated granulates...

2/3,K/31 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00787198

**A material, method and apparatus for inhibiting bacterial growth in an aqueous medium**

**Material, Verfahren und Vorrichtung zur Hemmung des Bakterienwachstums in wässrigen Medien**

**Materiau, procede et dispositif pour inhiber la croissance bacterienne dans un milieu aqueux**

PATENT ASSIGNEE:

KODAK LIMITED, (258585), Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)  
, (applicant designated states: GB)

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INVENTOR:

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Leeming, Karen, c/o Kodak Limited, Patent Department, Headstone Drive, Harrow, Middlesex, HA1 4TY, (GB)

Moore, Christopher Peter, c/o Kodak Limited, Patent Department, Headstone Drive, Harrow, Middlesex, HA1 4TY, (GB)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 733303 A2 960925 (Basic)  
EP 733303 A3 990217

APPLICATION (CC, No, Date): EP 96200605 960305;

PRIORITY (CC, No, Date): GB 9504629 950308

DESIGNATED STATES: DE; DK; FR; GB; NL; SE



INTERNATIONAL PATENT CLASS: A01N-025/10; A01N-043/80; C02F-001/50;  
ABSTRACT WORD COUNT: 84

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	231
SPEC A	(English)	EPAB96	2045
Total word count - document A			2276
Total word count - document B			0
Total word count - documents A + B			2276

...SPECIFICATION protect the environment.

Alternative methods of inhibiting bacterial growth in aqueous media involve the gradual \*release\* of a biocide through interaction with water e.g. by leaching.

GB-A-2 223 662 describes a \*coating\* composition for \*seeds\* which comprises an organic biocide chemically bound to a \*polymer\* by a hydrolytically unstable bond. The \*polymer\* gradually hydrolyses giving \*controlled\* \*release\* of the organic biocide.

Problem to be solved by the Invention  
A problem associated with...

2/3,K/32 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2002 European Patent Office. All rts. reserv.

00784056

High efficiency controlled release phosphate-based fertilizer  
Phosphatdungemittel mit gesteuerter Freigabe  
Engrais a liberation controlee a base de phosphate

PATENT ASSIGNEE:

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T8L 2P2, (CA), (applicant designated states: DE;ES;FI;FR;IT;NL)

INVENTOR:

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Nyborg, Martin, 9115-117 Street, Edmonton Alberta T6G 1T6, (CA)

Solberg, Elston, Box 1, Ryley Alberta T0B 4A0, (CA)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 731067 A2 960911 (Basic)  
EP 731067 A3 980211

APPLICATION (CC, No, Date): EP 96301638 960311;

PRIORITY (CC, No, Date): GB 9504875 950310

DESIGNATED STATES: DE; ES; FI; FR; IT; NL

INTERNATIONAL PATENT CLASS: C05B-007/00; C05G-005/00; C05G-003/00;

ABSTRACT WORD COUNT: 80

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	337
SPEC A	(English)	EPAB96	1837
Total word count - document A			2174
Total word count - document B			0
Total word count - documents A + B			2174